Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) An image capture and processing integrated circuit comprising: an image sensor including a plurality of sensor columns;
- a plurality of analogue-to-digital converters (ADC's) that are connected to the image sensor to convert analogue signals generated by the image sensor into digital signals;

image processing circuitry that is connected to the ADC's to carry out image processing operations on the digital signals; and

- a print head interface that is connected to the image processing circuitry to receive data from the image processing circuitry and to format that data for a printhead; and
- a plurality of analog signal processors, wherein each analog signal processor is dedicated to process one ore more signals generated by a respective one of the plurality of sensor columns;
- wherein the integrated circuit defines a CMOS active pixel sensor array, and wherein the integrated circuit incorporates a plurality of analog signal processors that are configured to carry out enhancement processes on analog signals generated by the active pixel sensor array.
- 2. (Currently Amended) An image capture and processing integrated circuit as claimed in claim 1, which includes a memory device that is interposed between the image sensor integrated circuit and the image processing circuitry to store data relating to an image sensed by the image sensor integrated circuit.
- 3. (Canceled)
- 4. (Canceled)
- 5. (Previously Presented) An image capture and processing integrated circuit as claimed in claim 1, in which the image processing circuitry includes color interpolation circuitry to interpolate pixel data.
- 6. (Previously Presented) An image capture and processing integrated circuit as claimed in claim 1, in which the image processing circuitry includes convolver circuitry that is configured to apply a convolution process to the image data.

- 7. (Previously Presented) An image capture and processing integrated circuit as claimed in claim 1, in which the print head interface is configured to format the data correctly for a pagewidth printhead.
- 8. (Previously Presented) An image capture and processing integrated circuit as claimed in claim 1, which is a single integrated circuit.
- 9. (Currently Amended) A camera system which includes an the image capture and processing integrated circuit as claimed in claim 1.